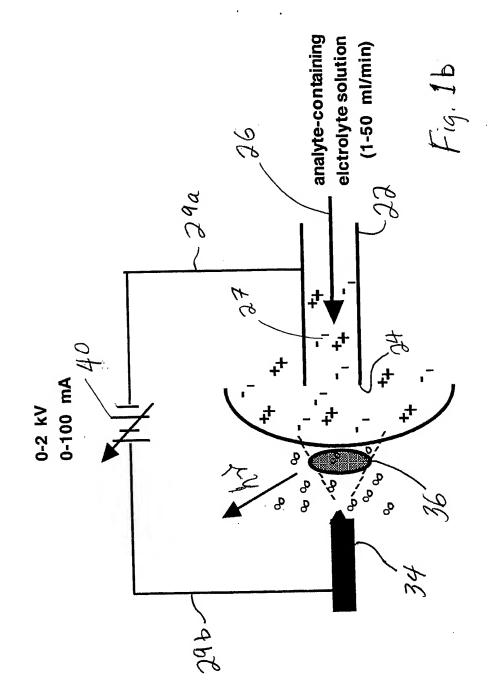
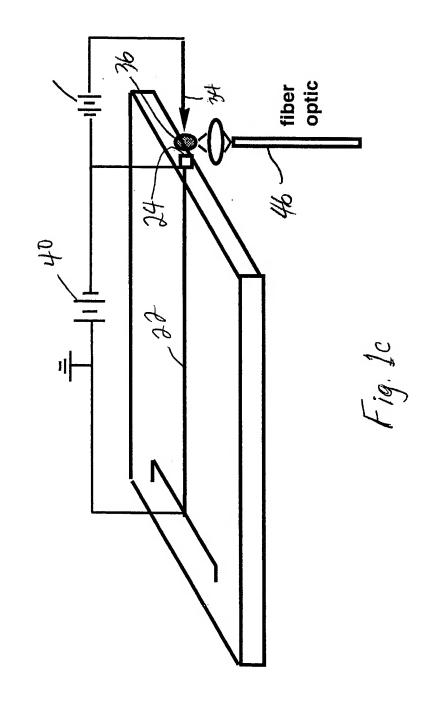
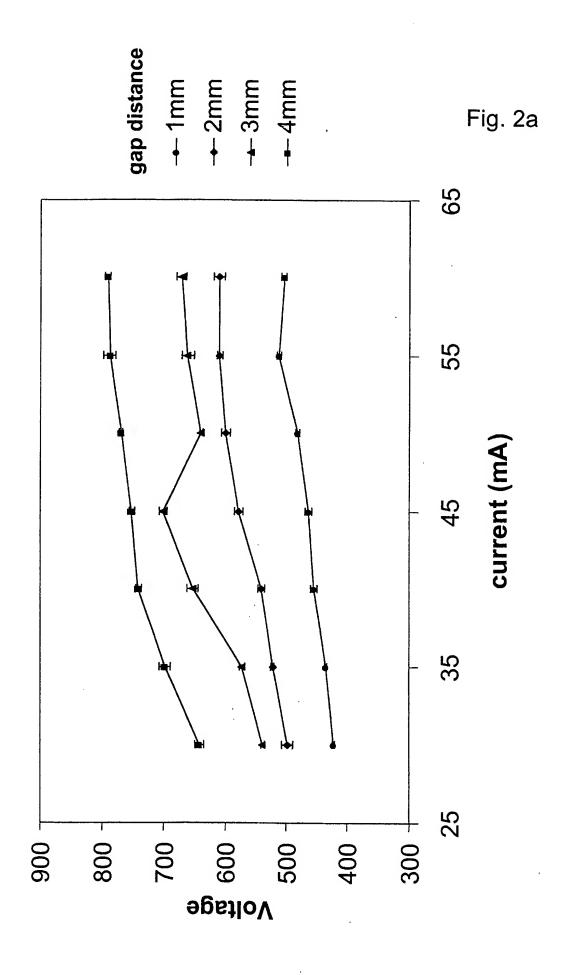


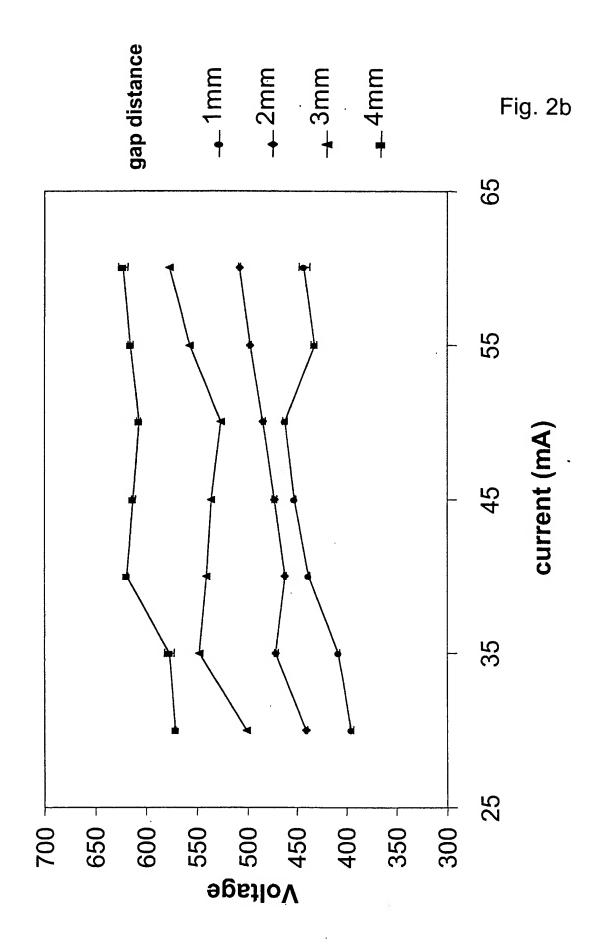
## Basic LS-APGD Source Operation

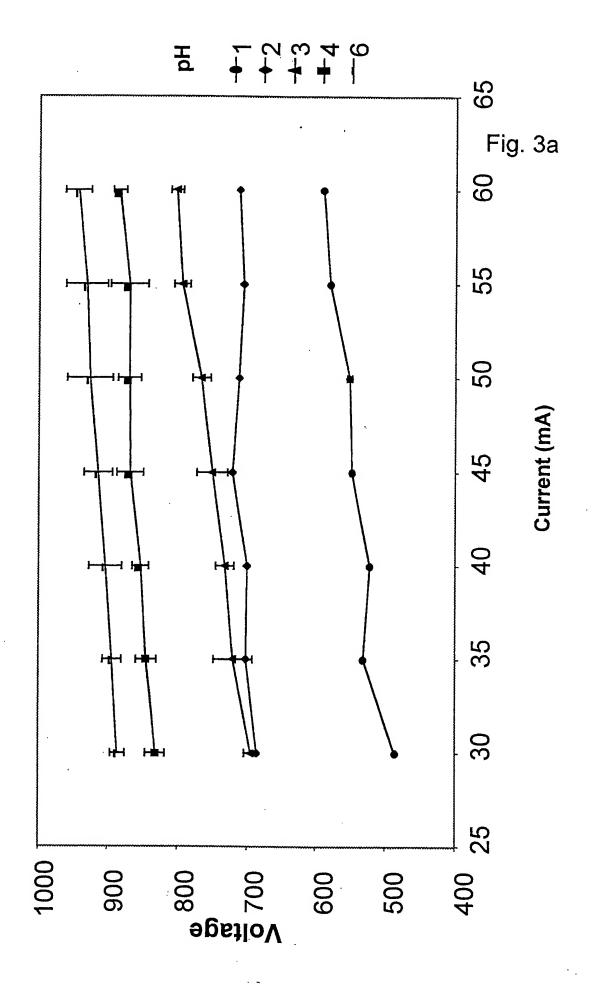


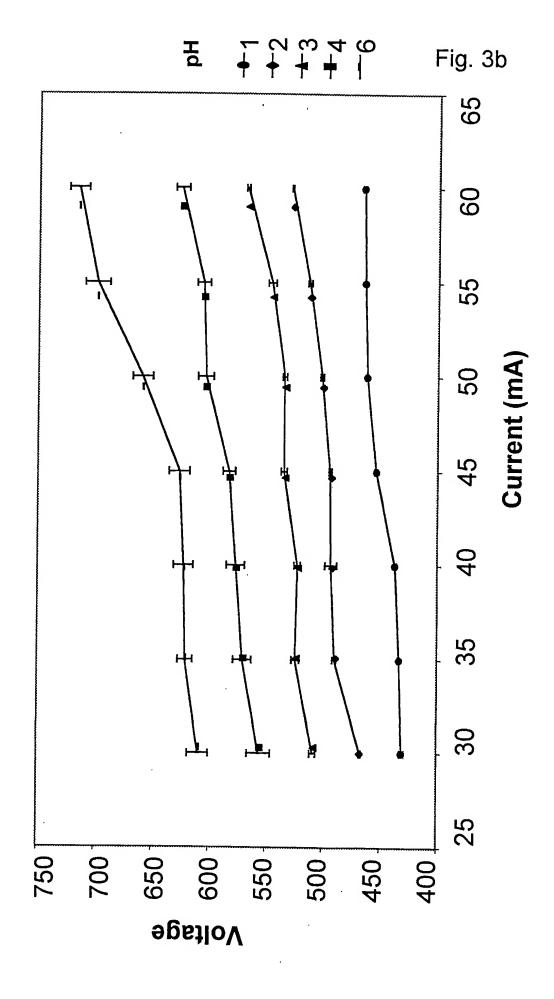
Proposed Implementation of LS-APGD with Microfluidic Devices

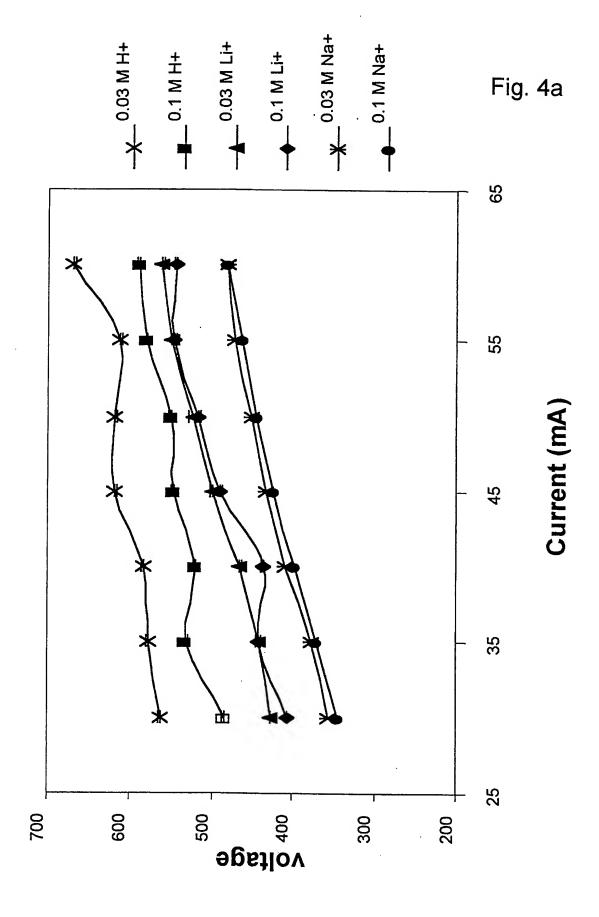


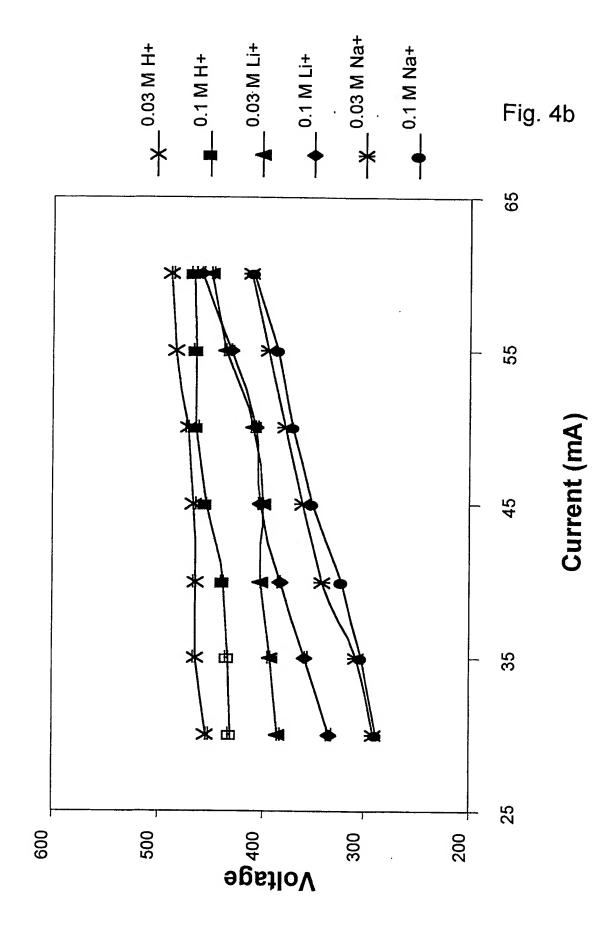


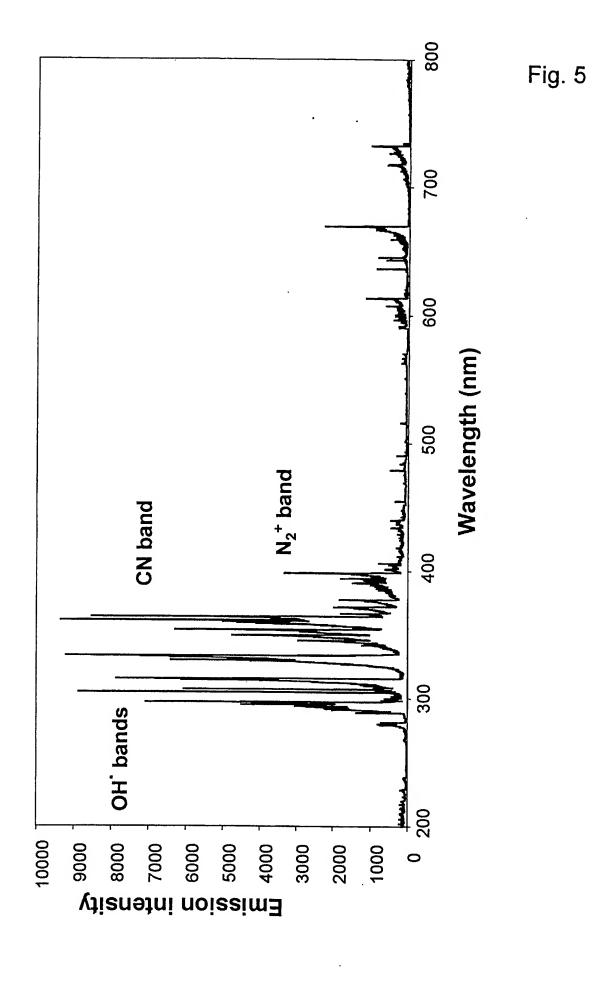


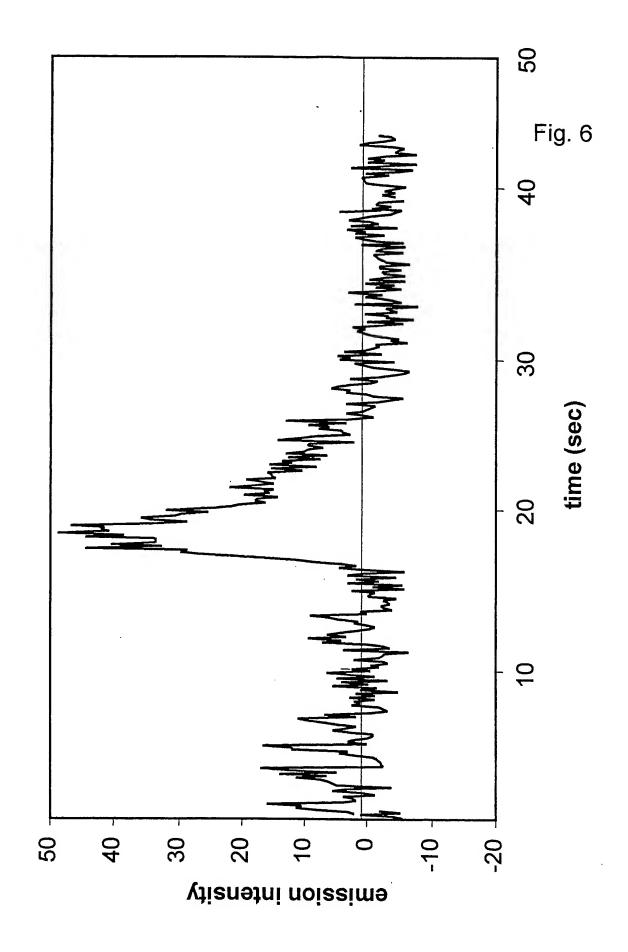


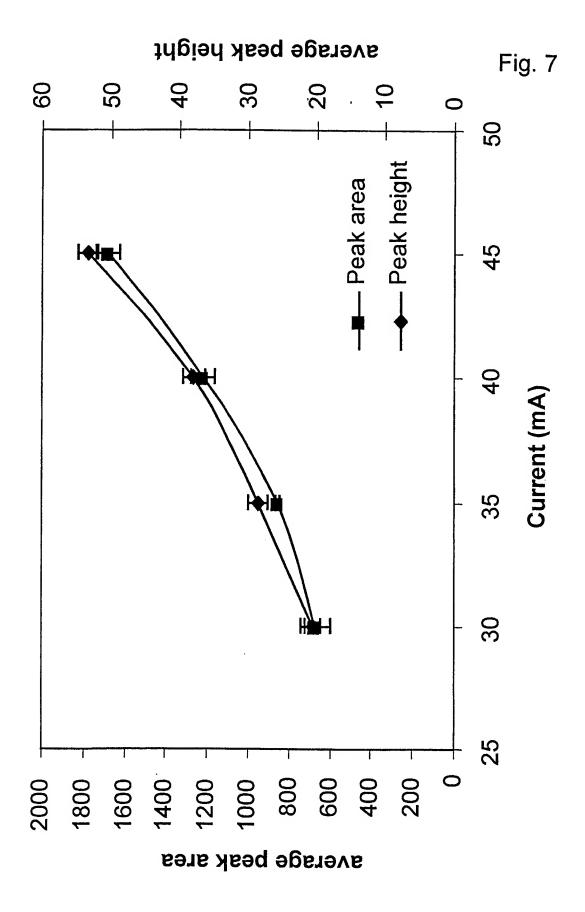


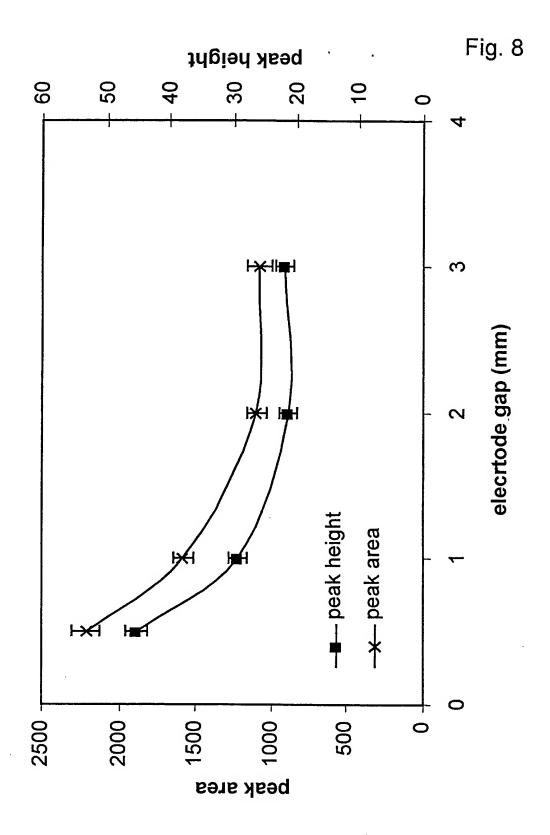


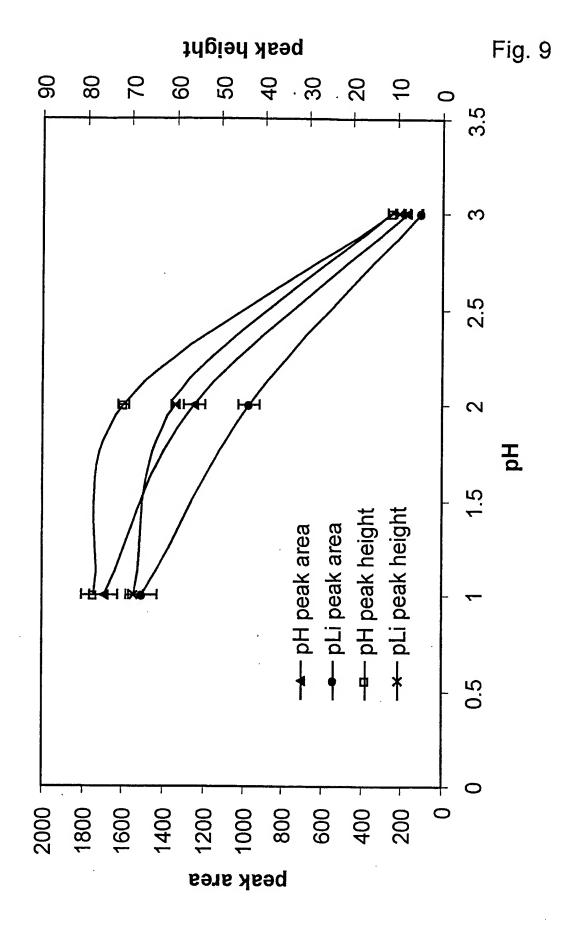








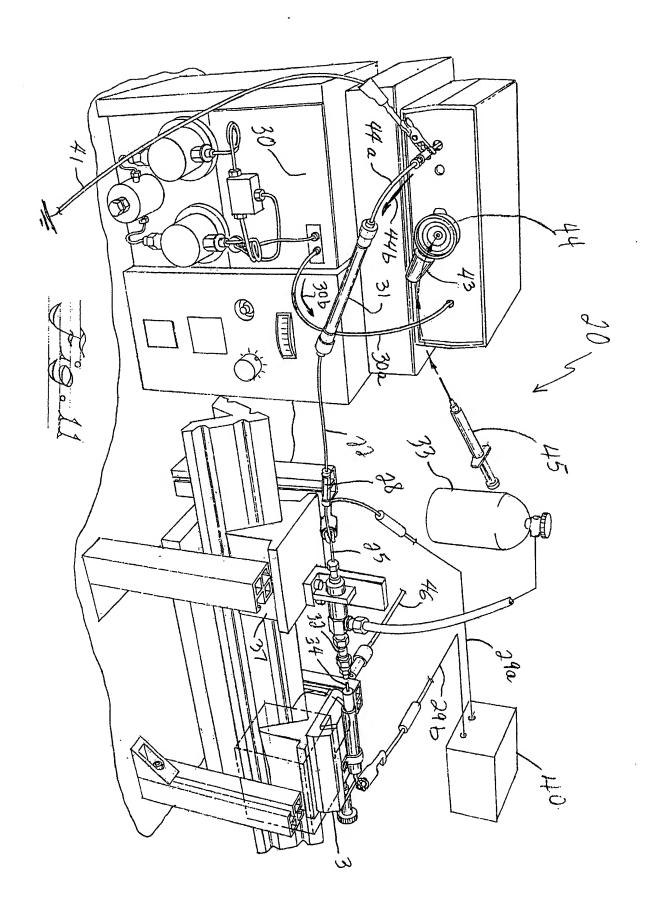


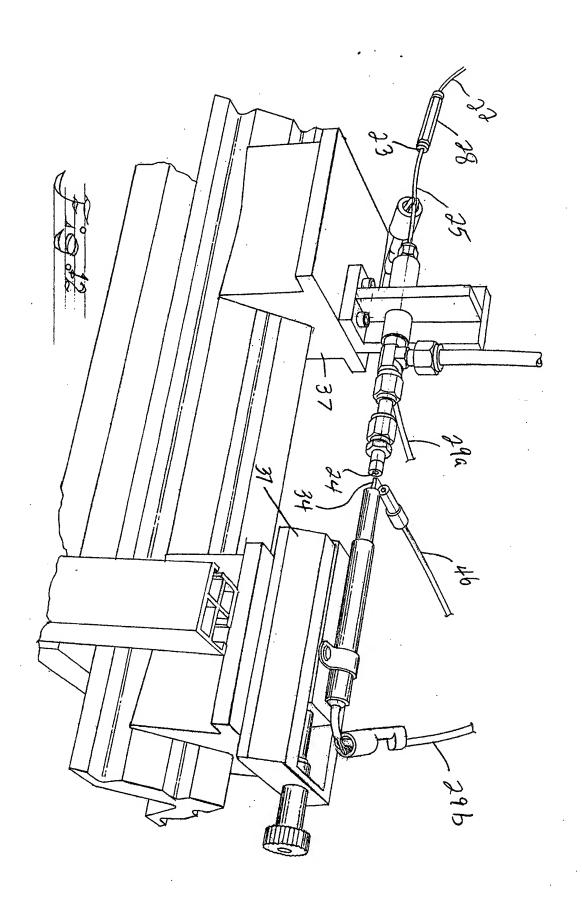


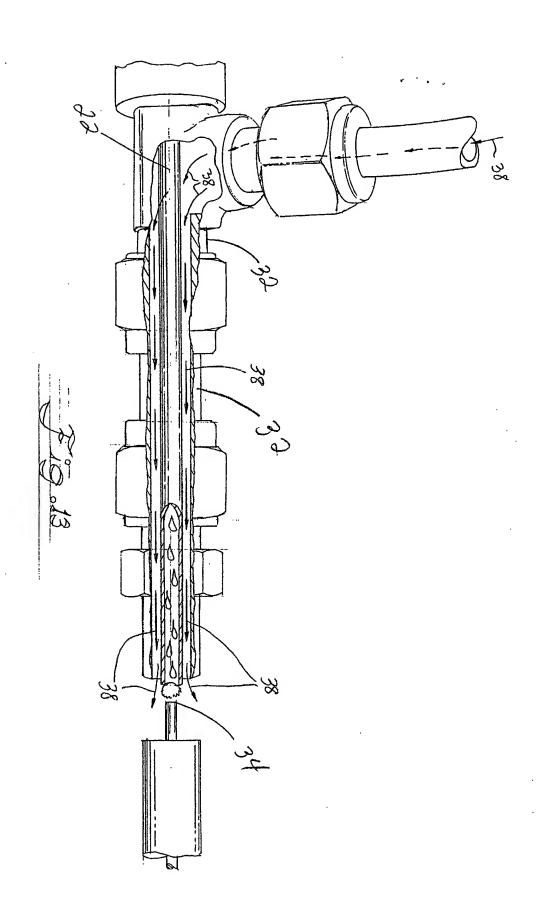
Analytical response functions and limits of detection for the LS-APGD device. Solution flow rate = 1 mL/min, electrolyte pH = 1, inter-electrode gap = 1 mm, injection volume =  $5 \, \mu$ L.

Element	wavelength (nm)	peak height eqn. R²		pea eqn.	k area R²	LOD ppm (ng)
Na	589.0	y=0.421x + 42.8 0.9859		y=15.81x + 978.6 0.9784		12 (60)
Fe	248.3	y=1.06x - 102.	1 0.9365	7=45.80 x -	6649 0.909	12 (60)
Pb	405.8	7=1.18x - 10.4	5 0.977	7=16.16x - 4	119.7 0.9298	14 (70)

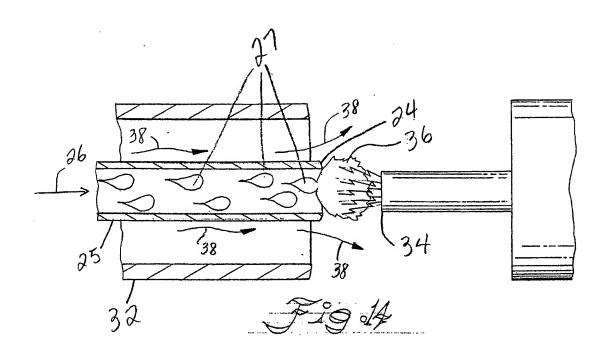
FIG. 10







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Selenoamino Acid Separation

